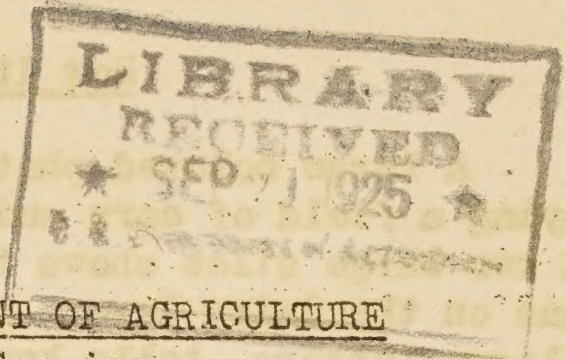


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UNITED STATES DEPARTMENT OF AGRICULTURE

Extension Service

Office of Exhibits

A Summary of the Exhibit

SOYBEANS FOR THE DAIRY FARM

A booth exhibit showing varieties of soybeans, commercial products made from soybeans and that soybeans supplement corn on the dairy farm.

Specifications

Floor space - - - - - 11' front, 4' deep
Wall space - - - - - None.
Shipping weight - - - - - 650 lbs.
Electrical requirements - None.

SOYBEANS FOR THE DAIRY FARM

How It Looks

A large colored photograph of a farm scene portraying a field of corn and soybeans and a dairy farm and two large silos shows the growing and use of soybeans on the dairy farm. Above the illustration text, in large letters, tells how soybeans supplement corn. A miniature silo is shown in the two corners of the booth showing that soybeans are used for silage alone and mixed with corn. On the shelf, extending across the rear of the booth, are shown samples of soybean hay, straw, meal, oil, and in fact all of the commercial products derived from the soybean.

The left section shows three colored photographs of varieties of early soybeans for grain and silage, and five mounted specimens of pods and seed of different types of soybeans. The right section is made up similar to the left section and shows medium soybeans for hay and pasture.

The booth is 11 feet across the front, 4 feet deep and 7 feet high.

What It Tells

In general, the climatic adaptations and soil requirements of the soybean are about the same as for varieties of corn and cotton. The soybean is more drought resistant and less sensitive to an excess of moisture than field beans or corn.

Culture. The preparation of the seed bed for soybeans is similar to that of corn. When sown on land not previously planted to this crop, it is advisable to inoculate. The best time for planting soybeans is about that for planting corn. When sown or drilled broadcast use 90 pounds of seed, and in rows about 30 pounds.

Varieties. The variety to be selected should be one adapted to local conditions and to the purpose for which the crop is grown. The yellow-seeded varieties are to be preferred for food products, pasture,

oil, and cake, while the black and brown-seeded varieties are more suitable for forage purposes, giving more and finer forage. These varieties are shown in the exhibit. In the United States the soybean is used primarily for hay, soilage, ensilage and pasture.

Hay and Straw. The soybean when cut at the right stage of growth and properly cured makes an excellent hay of high-feeding value that is relished by all farm animals. The soybean will average about 2 tons to the acre. A sample of this hay will be found in the exhibit. The straw obtained from thrashing soybeans for seed is a valuable feed for all kinds of stock.

Soilage. Having a high protein value the soybean may be fed to good advantage as a soiling crop with less nitrogenous crops, such as corn, sorghum, and Sudan grass.

Ensilage. The soybean forms a valuable supplement to corn for ensilage, making a well-balanced ensilage that keeps well as will be noted from the samples shown. It is readily eaten by stock, and produces no bad effects in the quality of milk and its products.

Pasture. As a pasture crop, the soybean can be used to advantage for all kinds of stock, the most profitable method, perhaps, being to pasture with hogs, supplementing the corn ration.

Oil. Soybean oil is extensively used in Europe and America for food stuffs, in the manufacture of paints, lard, and butter substitutes, soaps, enamels, linoleum, etc.

Cake and Oil Meal. The soybean cake remaining after the oil is expressed is ground into a meal and makes a highly concentrated feed. This meal is used in the dairy countries of Europe, practical experience having shown its high feeding value. Large quantities of imported oil meal have been used by dairymen and poultrymen in the Pacific States. Oil and cake are being produced from American-grown beans by oil mills in parts of the Corn Belt and the Cotton Belt.

Where to get Information

The following publications may be obtained free

of charge from the U. S. Department of Agriculture,
Washington, D. C.:

Farmers' Bulletin 973 - The Soybean, Its Culture and
Uses

Farmers' Bulletin 886 - Harvesting Soybeans for Seed

U.S.D.A. Bulletin 439 - The Soybean, with special
reference to its utilization for oil, cake, and other
products.

Yearbook Separate 740 - The Soybean Industry in the
United States